

Patent claims

1. A system for automatically creating, installing,
5 verifying and configuring functionalities, stored
in installation, verification and/or configuration
files, for system components, arranged in a
distributed network, using a knowledge-based
system planning tool (1) which comprises a user
10 interface (10), a planning logic unit (20), a data
management unit (30), a planning database (40) and
an installation tool (60), where
 - selected system options in the user interface
(10) are selected for the planning logic unit
(20) and the data management unit (30),
 - 15 - the planning database (40) stores system
information for the data management unit (30),
 - the planning logic unit (20) produces plans for
the system structure from the system options in
the user interface (10) and supplies them to
20 the data management unit (30),
 - the data management unit (30) generates and
configures software packages from the system
options in the user interface (10), from the
system information in the planning database
25 (40) and from the plans for the system
structure which are produced in the planning
logic unit (20), and
 - transfers the software packages to the
installation tool (60).
- 30 2. The system as claimed in claim 1, characterized in
that the functionalities stored in installation,
verification and/or configuration files are
software packages.
- 35 3. The system as claimed in claim 1 or 2,
characterized in that the data management unit
(30) interacts with a change unit (50) in order to

update the planning data stored in the planning database (40) and/or the plans produced by the planning logic unit (20).

- 5 4. The system as claimed in one of the preceding claims, characterized in that the system options selected in the user interface (10) comprise information about the system structure and the system types.
- 10 5. The system as claimed in one of the preceding claims, characterized in that the software packages are system component data and setup data for the system components.
- 15 6. The system as claimed in one of the preceding claims, characterized in that a data generator is provided in the data management unit (30) for producing the software packages.
- 20 7. The system as claimed in one of the preceding claims, characterized in that the installation tool (60) automatically checks the software packages taking account of rules, stipulations and dependencies among the system components.
- 25 8. The system as claimed in one of the preceding claims, characterized in that the installation tool (60) provides the software packages for transmission, installation and configuration for the respective system components.
- 30 9. A method for automatically creating, verifying, installing and configuring functionalities, stored in installation, verification and/or configuration files, for system components, arranged in a distributed network, using a knowledge-based system planning tool (1) which comprises a user
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interface (10), a planning logic unit (20), a data management unit (30), a planning database (40) and an installation tool (60), where

- 5 - system options selected using the user interface (10) are provided for the planning logic unit (20) and the data management unit (30),
- 10 - the data management unit (30) uses an integrated data and rule manager to provide conditioned planning data,
- 15 - the planning database (40) is used to store system information for the data management unit (30),
- which the planning logic unit (20) uses to produce plans for the system structure from the system options in the user interface (10) and from planning data from the data management unit (30) of the and are supplied to the data management unit (30),
- 20 - the data management unit (30) is used to generate and configure software packages from the system options in the user interface (10), from the system information in the planning database (40) and from the plans for creating
- 25 the system structure which are produced in the planning logic unit (20) and to transfer them to the installation tool (60).

10. The method as claimed in claim 9, characterized in
30 that the functionalities stored in installation, verification and/or configuration files are in the form of software packages.

11. The method as claimed in claim 9 or 10,
35 characterized in that a change unit (50) is used to update the planning data stored in the planning database (40) and/or the plans produced by the planning logic unit (20).

12. The method as claimed in claims 9 to 11,
characterized in that the user interface (10) is
used to store information about the system
5 structure and the system types.
13. The method as claimed in claims 9 to 12,
characterized in that the software packages are
used to store system component data and setup data
10 for the system components.
14. The method as claimed in claims 9 to 13,
characterized in that the software packages are
generated using a data generator.
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15. The method as claimed in claims 9 to 14,
characterized in that the installation tool (60)
automatically checks the software packages taking
account of rules, stipulations and dependencies
20 among the system components.
16. The method as claimed in claims 9 to 15,
characterized in that the generated software
packages are provided for transmission,
25 installation and configuration for the respective
system components, and are automatically
installed, checked and configured in a prescribed
order and manner.